EXHIBIT A

PATENT COOPERATION TREATY

	ı	PATENT COO	PEF	RATION TREA	TY Tac AUG 2005	
To: DE ALMEIDA Katia Fernandes BHERING, ALMEIDA & ASSOCIADOS Rua Beneditinos 16, 11o. Andar, 20081-050, Rio de Janeiro, RJ Brazil Applicant's or agent's file reference			WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) FOR FURTHER ACTION			
P1495			See paragraph 2 below			
			hing date (day/month/year) Priority Date (day/month/year) 18 March 2004 (18.03.2004)			
International Patent Classification (IPC) or both national classification and IPC A61K 38/17						
Applicant	Applicant Fundacao Oswaldo Cruz - Flocruz					
Cont. No. I Cont. No. II Cont. No. III Cont. No. IV Cont. No. V Cont. No. VI Cont. No. VI Cont. No. VII Cont. No. VII Tont. No. VIII Authority other than that written opinions if this opinion is, as IPEA a written reply of Form PCT/ISA/2	No. II Priority No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability No. IV Lack of unity of invention No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement No. VI Certain documents cited No. VII Certain defects in the international application No. VIII Certain observations on the international application					
For further options, 3. For further details, se						
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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/BR 2005/000036

Continuation No. I

Basis of the opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed.

Continuation No. III:

Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The questions whether the claimed Invention appears to be novel, to Involve an Inventive step (to be non obvious), or to be Industrially applicable have not been examined in respect of the said claims Nos. 3-9 because said claims Nos. 3-9 relate to the following subject matter which does not require an International preliminary examination (specify):

Although claims 3-9 concern the treatment of the human or animal body by therapy (see PCT Rule 39.1(iv)) the written opinion was carried out and based on the alleged effect.

Continuation No. V

Reasoned statement under Rule 43bis.1(a)(l) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims 1-9 Clairns	YES NO
Inventive step (IS)	Claims 1-9 Claims	YES NO
Industrial applicability (IA)	Claims 1,2 Claims 3-9	YES

2. Citations and explanations:

The following documents are cited:

D1: The Journal of biological chemistry, 2002, Vol. 277, No. 15, pages 13129-13137

Form PCT/ISA/237 (continuation (0)) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/BR 2005/000036

D2: EP 758021 A2 D3: US 6339160 B1

D1 reveals the sequence and the structure of the DM43 glycoprotein. Also the mechanism of the inhibition of the metalloproteinase is disclosed. However, this document does not provide any data which demonstrate that DM43 is a therapeutically active substance which influence apoptosis, cell death or the cell cycle. Thus D1 does not interfere with novelty and inventive step.

D2 is directed to the determining of the therapeutic activity of a peptido-mimetic compound in order to recognise and produce active drugs for treatment of humans and animals. This document concems pharmaceutical compositions comprising an inhibitor of metalloproteinase as well, but it does not disclose compounds which are comparable with the 43 kD glycoprotein of the present application. Consequently D2 cannot reveal the biological properties of DM43. Also D3 deals with peptido-mimetic inhibitors of metalloproteinases. However this document concems organic compounds, that means the production of small chemical compounds which are not DM43.

Although the cited documents teach that inhibitors of metalloproteinases may be useful in medicine (eg. D1 suggests to use DM43 for the treatment of snake envenomation) none of the documents show data which underline that DM43 is really a therapeutically active substance.

Novelty and Inventive step are recognized for the subject-matters of all claims. Industrial applicability is given for the subject-matters of claims 1 and 2. Claims 3-9 concern the treatment of the human or animal body by therapy (see PCT Rule 39.1(iv)). The subject-matters of these claims are not industrially applicable.